Previous references.

1904.

(Gen'l Finance)

File No. 42

Serial Nos. 1-4

Later references.

Gen. Fin 38 of 03

P17

GENERAL AND REVENUE SECRETARIAT.

Serial Nos. 1-5

Part B. ~~for~~

SUBJECT.

Provision in the Budget Estimate of the Agl Chemist for '04-05 of Rs 4000 for Apparatus, Chemicals & Books

✓ S(1) No 682 dy 24.2.24 From the Agl Chemist States that the provision under the above mention for the previous year was not enough and that much inconvenience was felt on that account Requests that a provision of Rs 4000 may be made in the Budgets of '04-05 & the two following years

✓ No 7L 2546 dy 15.3.24 To the Agl Chemist ~~G.P.S. 58~~ Requests him to send a list of apparatus & Chemicals with explanation as to how each is intended to be

Office of the Dewan of Mysore.

File No. (if any)

Directions.

No., date and purport of receipts to be entered in red, and office note in black ink in order of dates.—To be written only on one side, and inside the line of margin.

Office Note

Branch Revenue.

Subject Letter no: 682 dated 24th February 1904 from the Agricultural Chemist soliciting sanction to the provision in the Budget of Rs 4000/- for Apparatus and Chemicals and Books.

The Agl Chemist requests ~~for~~ a grant in the Budget for next year (and for a year or two following it) of a sum of Rs 4000/- for Apparatus, Chemicals and Books for reasons explained in the letter.

The provision for the previous years was as follows:—

	03-04	02-03	01-02
Purchase of Books	10	0	1000
Do— of Apparatus & Chemicals	2000	1000	4000

Submitted for orders to the Dewan thro' the 1st Sr.

H.O.B. 5/3/04

5/3/4

The Secretary

I am sorry I cannot support the application

5/3/04

1664 3/8.3.04

M 8/3/4

5/3/04

07706

Asks for a statement
of this case with explanation
of how each is intended
where used.

(Merck)

9.3.04

Draft-accd
K
14.3.1904

Dft Subd
Hvd
14/3/04

Note, continued.

In reply, Dr. Lehmann states (776 of 16.3.04)
that he ~~shall~~ will ask Mr. Wetherell
to forward Copies of orders for
Chemicals and apparatus he
sent to Messrs. Max Kaehler and
Martini this year, that the
requirements for next year
are not identical with those
for this year but that they will
be similar and that in the
very limited time at his
disposal he could not give
a better idea of the require-
ments for next year than
to quote the requirements

for the current year.

The subscription to journa
and periodicals is said to
have amounted to Rs 238 and
the total expenditure under
the head of Chemicals, Apparatu
and Books is said to be Rs 3600
for the current year.

He regrets exceedingly that
lack of time forbids him to
prepare the list and to explain
how each is intended to be used

Mr: Wetherell forwards the
list of apparatus and Chemica
referred to above. (No: 786 & 22·3·

Submitted

RAV
7/4/04 The point is how
much should be
provided in the next
year's budget for
Chemicals & Apparat
& books

Submitted Mr.
Secretary
8/4/04

The Agricultural Chemists Budget has
been

been already subd to the Dewan I think Am I right? Is this requisition for Rs 4000/- for Chemicals not included in that Budget?

21/4/04

Vigneswaran 21/4/04

submitted to the Secretary

has been received back from the Dewan
The file is submitted to the

1st Councillor today. There is a provision of Rs 2000/- on account of chemicals & in the budget referred to.

28/4/04 28/4/04

The question involved is whether Rs. 4000/- should be provided in the Agrl Chemists Budget instead of Rs 2000/- already entered therein on acct of Apparatus &c

Subd & the 1st Cr with ~~them~~ the Budget file ~~as at present~~

Vigneswaran

28/4/04

I don't think I would be in order in dealing with this reference at this stage. To avoid delay however I may say as I said on the adjournment for lunch in connection with the Agricultural item that I am agreeable to the increased

Dora portion of it, being [illegible]
grant asked for in case
the 2 Mr & the Dewan are
satisfied that it is absolutely
necessary - Dr Rahimam & Begam
have made out a good case -

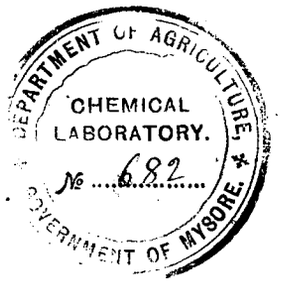
28/4/04

Subd to the 2½ Ll 29/4/04

I am not quite conversant
with this dept - If the Dewan
sahib thinks that the
provision ₹2000 to already
made is not sufficient
a small increase may perhaps
be allowed. The expenses of this
dept are increasing.

B Rangachariar
30/4/1904

The sum of Rs 4000 has been
included in the Budget —



Office of the Agricultural Chemist,
Government of Mysore,
Bangalore, February 24th 1904.

81 1

From

Dr. A. Lehmann, M.A., B.S.A., Ph.D.,
Agricultural Chemist to the Government of
His Highness the Maharaja of Mysore,

To

L. Anantasami Rao, Esquire, B.A.,
Officiating Secretary to the Government of
His Highness the Maharaja of Mysore,
General & Revenue Departments,
Bangalore.

Sir,

For the past two years the appropriation for Apparatus, Chemicals and Books has not met the actual requirements. The stocks of Apparatus and Chemicals have been reduced, and in some cases completely exhausted some considerable time before new supplies could be obtained. As it takes from three to five months to get out stores from Europe, and as most of the chemicals and apparatus required in the laboratory can not be bought in India, it is impossible to get either apparatus or chemicals on short notice. It is therefore absolutely necessary to have larger stores on hand than are expected to be used during the year.

This year I have been hampered considerably on account of the stock of some of chemicals such as absolutely pure carbonate of soda, pure carbon bisulphide, pure hydrofluoric acid and pure Ammoniam Oxalate having given out. The ammonium oxalate required for the gold analyses I got locally, but had to purify it. The Carbon bisulphide and sodium carbonate I tried to prepare in the laboratory. But as this laboratory is not equipped for these manufacturing processes the sodium carbonate produced

MYSORE GOVERNMENT
26 FEB 1904
GENERAL & REVENUE SECRETARIA

From

Dr. A. Lehmann, [illegible], Ph.D.,
Agricultural Chemist to the Govt
of H.H. the Maharaja of Mysore,
Bangalore.

To

L. Anantasami Rao, Esquire, B.A.,
Offg. Secy. to the Government of
H.H. the Maharaja of Mysore,
Gen. & Rev. Departments,
Bangalore.

Dated 24th February 1904.

Despatched

Received

General No.

No.

Enclosure No.

Requesting that the appropriation of Rs. 4000 asked for in the Budget estimates for Apparatus, chemicals and books be granted, as the appropriation for the past two years under that heading did not meet the actual requirements, and the stock of chemicals and apparatus on hand is getting lower, and that next year there will be some additional requirements on account of the 4 students working all day in the laboratory.

Submitted with a note
5/3/04

was rather impure and frightfully expensive. It cost over 100 times the sum in time and other chemicals than a pure article could have been imported for if there had been time and money to do so. The manufacture of the Carbon bisulphide proved so expensive and troublesome that it was abandoned altogether, and we have been without this reagent as well as Hydrofluoric acid for two months, and had to stop certain lines of analytical work altogether. During the present year I have had to ask for a reappropriation of Rs. 1600 from the Experimental Farm Budget for Chemicals and Apparatus. But it is not likely that there will be a chance to get a reappropriation from some other heading in this department next year. I therefore earnestly request that Government grant me in the Budget for next year (and for a year or two following it) a sum of Rs. 4000 for Apparatus, Chemicals and Books. This estimate is far from being large when compared with the grants given to similar laboratories in other parts of the world which are much nearer the source of supply than we are and where they do not require to keep their store room as well stocked as we must. The four additional students will of course also require some chemicals and apparatus, and even though they will not require nearly as much as properly trained men doing useful work, their requirements will have to be taken into consideration in the estimates.

I have the honour to be,

Sir,

Your most obedient servant,

F. Lehmann

Agricultural Chemist.

To. 3 (2)

The Agricultural Chemis
to the Govt of H. H.
the Maharaja of Mysor
& 2

Dated 15/3/04
15 D L
No: H 2646

His letter no: 682 dated
24th February 1904 re-
questing sanction to the
provision of a sum of
Rs 4000 in the Budget for
04-05 for Apparatus,
Chemicals and Books.

Has the honour to reques
that a statement or
list of the apparatus &c
may be submitted with
explanation as to how
each is intended to be
used.

Issue Clk 22/3/04
U 22/3/04

Issue Clk
Submitted
for sanction

Dewan's Office

By Order
U 14/3/04
for Office Secy

Office of the Agricultural Chemist,
Government of Mysore,
Bangalore, March 16th 1904.

From

Dr. A. Lehmann, M.A., B.S.A., Ph.D.,
Agricultural Chemist to the Government of
His Highness the Maharaja of Mysore,

To

E. K. Venkatavaradiengar, Esquire,
Secretary to the Government of
His Highness the Maharaja of Mysore,
General & Revenue Departments,
Bangalore.

Dear sir,

In reply to your docket No. Fl. 2546 dated 15th March 1904 I have the honour to state that I shall ask Mr. Wetherell to forward copies of orders for Chemicals and Apparatus I sent to Messrs. Max Kaehler & Martini this year. They are now being prepared, but will not be finished until after I leave for Canad Of course the requirements for next year are not identical with those for this year. But they will be similar; and the very limited time at my disposal I could not give a better idea of the requirements for next year than to quote the requirements for the current year. In addition to the orders mentioned above several smaller orders were sent for chemicals and apparatus. But those quoted above give a very good idea of the requirements in the line of Chemicals and apparatus for the current year.

The subscription to Journals and periodicals amounted to Rs. 238 Practically the only books purchased were Mollison's Agriculture, Hall on the Soil and Hooker's Flora of British India. The total expenditure under the head of Chemicals Apparatus and Books is Rs. 3600 for the current year.

R 273
19 190

(3)

From
Dr.A.Lehmann,M.A.,B.S.A.,Ph.D.,
Agricultural Chemist to the Govt
of H.H.the Maharaja of Mysore,
Bangalore.

To
B.K.Venkatavaradiengar, Esquire,
Secretary to the Government of
H.H.the Maharaja of Mysore,
Gen. & Rev. Departments,
Bangalore.

Dated 16th March 1904.

Despatched

Received

General No. 776.
No.

Enclosure No.

In reply to his docket No. Fl. 2546 dated 15th March 1904 giving an account of the Apparatus Chemicals and Books required for Department .

Rev: Dept
Ltr
18/3/1904

Refd Instrs
26/3

5

I regret exceedingly that lack of time forbids me to prepare the list of chemicals, apparatus, books &c required for next year, and to explain how each is intended to be used. I fully appreciate the deep interest the Government of His Highness the Maharaja of Mysore is taking in all the details of my work, and nothing would give me more pleasure than to prepare the statement if time permitted it, but as it would take me at least two weeks to prepare this statement I am sure that under the circumstances Government would not wish me to spend that amount of time on it, and confidently hope that it will be able to accept the Budget estimates as it would have done if I had time to state how each Rupee was to be expended and the amount of work expected to be done with it.

I have the honour to be,

Dear sir,

Your most obedient servant,

A. Lehmann

Agricultural Chemist.

MYSORE GOVERNMENT
GENERAL
24 MAR 1904
190

FROM

E.W.Wetherell,Esquire,A.R.C.S.,&c,
Offg.Agricultural Chemist to the
Govt.of H.H.the Maharaja of Mysore,
Bangalore.

To

L.Anantasami Rao,Esquire,B.A.,
Offg. Secretary to the Government
of H. H.the Maharaja of Mysore,
Gen. & Rev. Departments,
Bangalore.

Dated 22nd March 1904.

Despatched 24. March 1904.

Received

General No. 786
No.

Enclosure No. 1.
11 Sheets

In continuation of this office letter No. 776 dated 16th March 1904 has the honour to forward herewith the list of apparatus & chemicals referred to therein.

E.W.Wetherell

Offg. Agricultural Chemist.

Catalogue No.	Quantity.	Particulars.	
		Jena Glass.	
	30	beakers each, Griffin form with lip:- 250 c.c.; 400 c.c.; 600 c.c.; 800 c.c.; I,000 c.c.; I,300 c.c.	II7.00
	I0	beakers each, High form with lip:- I,500 c.c.; 2,000 c.c.;3,000 c.c.	33.50
	I5	Erlenmeyers, each, 50 c.c.; I00 c.c.; I5o c.c.; 200 c.c.;300 c.c.; 450 c.c.; 600 c.c.; 850 c.c.; I,I00 c.c.;2,000 c.c.	69.00
	2o	Erlenmeyers,each, 300 c.c.; 600 c.c.; I,I00 c.c.	33.00
	20	Flat bottom flasks, each I00 c.c.; 200 c.c. 300 c.c.; 400 c.c.; 500 c.c.;700 c.c.; I,000 c.c.	88.00
	I0	Flat bottom flasks, each,50 c.c. I500 c.c. 2,000 c.c.; 3,000 c.c.;	
	I5	Kjeldohl diggstion flasks, each 200 c.c.; 500 c.c.	I5.00
	5	each, Retorts with stopper, I Litre,2 Litres 4Litres.	28.50
	2	Kelo each,Combustion tubing,I5 m.m.; 20 m.m. 25 m.m.	I6.00
			400.00

223I. Soft glass tubes for glass blowing purposes:-

½ K.	No. 2.	
½ K.	No. 3.	
½ K.	No. 4.	
I K.	No. 5.	
I K.	No. 6.	I0.50
I K.	No. 7.	
I K.	No. 8.	
I K.	No. 9.	

I523 a. Bottles half white, flat stoppers, narrow necks;-

50	I Litre	
I00	½ Litre.	
50	250 c.c.	89.50
50	I00 c.c.	
50	50 c.c.	
50	30 c.c.	

I526 a. Bottles wide mouthed, flat stoppered:-

50	500 c.c.	
25	I00 c.c.	32.60
25	50 c.c.	
25	I5 c.c.	

I5II. 7 sets. Reagent Bottles, I set with flat stoppers (No. I), 6 sets with high stoppers (NO.2). 5 sets of the high stoppers to be marked with letters:- one set with A;

I32.60

one set with B; one set with C; one set with D; one set with E. The following 32 bottles to be in each set:-

All the wide mouthed bottles to be flat stoppered.

Narrow necks, white glass, 500 c.c.capacity:-

Nitric Acid strong.
Nitric Acid dilute.
Hydrochloric Acid strong.
Hydrochloric Acid dilute.
Sulphuric acid strong.
Sulphuric Acid dilute.
Ammonia.
Acetic Acid.
Ammonium Carbonate.
Ammonium Chloride.
Ammonium Oxalate.
Sodium Phosphate.
Ammonium Molybdate.
Ammonium Nitrate.(50 % solution).
Barium Chloride.

150.00

Narrow necks, white glass, 200 c.c. capacity:-

Potassium Chromate.
Potassium Bichromate.

150.00

Potassium Ferri Cyanide.

Potassium Ferro Cyanide.

Potassium Sulpho Cyanide.

Potassium Hydrate.

Potassium Carbonate. 77.00

Calcium Sulphate.

Chlorine Water.

Ferric Chloride.

Narrow neck, brown glass, 200 c.c. capacity:-

Silver Nitrate. 22.75

Ammonium Sulphide.

Ammonium Sulphide, Yellow.

Narrow necks, all high stoppers with ground cover (H), white glass, 200 c.c. capacity:-

Bromine. 11.20

Wide mouthed bottles, all flat stoppers, 200 c.c. capacity:-

Sodium Carbonate.

Fusion Mixture. 25.20

Acid Sodium Sulphate.

Filters. 589[2] Schleicher & Schuell:-

1,000 11 c.m.

3,000 12½ c.m. 163.00

1,000 15 c.m.

299.15

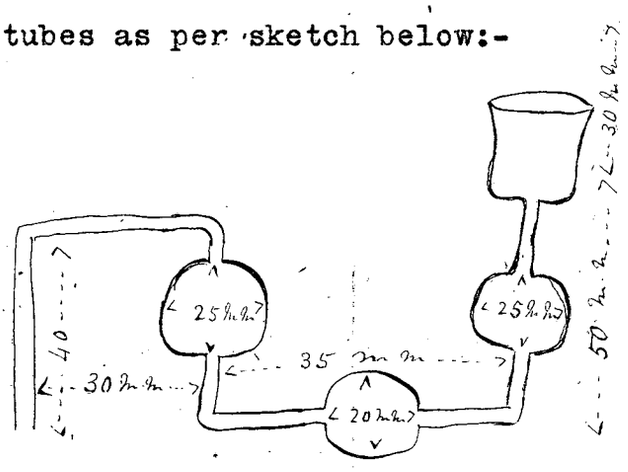
Filters. 589 [3] Schleicher & Schuell:-

hardened:-

500 12½ c.m.

500 15 c.m. 36.00

12 Bulb tubes as per sketch below:-



say, 7.00

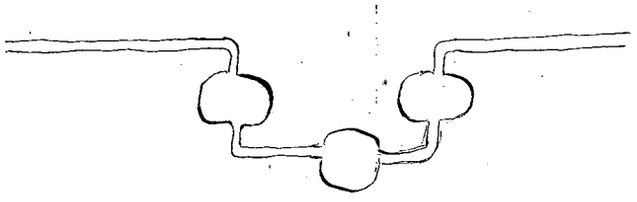
Internal diameter of tube 4 m.m.

External diameter of tube 6 m.m.

External diameter of two larger bulbs 25 m.m.

External diameter of smaller bulb 20 m.m.

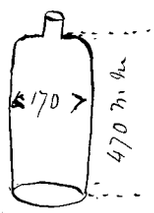
6 Bulb tubes approximately as per sketch below:- say, 3.00



46.00

The size of bulbs and tubes about the same as above, but the walls of tubing thinner.

3792.	50 Gr.	Platinum foil, 0.1 m.m. thick.	
3797.	1.	Platinum cone for electrolytic work.	350.00
3802.	1.	Platinum spiral for electrolytic work.	
3795.	2.	Platinum triangles about 7 gr.each.	96.00
3819.	2.	Platinum spatulas, forma about 5 gr.each.	
4390.	4.	Crucible tongs (double bent), pure nickel.	24.00
	2.	Glass Beljars with tubular at top. External dimensions:- The upper part of the Beljar has to go into a box 175 m.m. in diameter. The external diameter must therefore not exceed 170 m.m. If it is slightly less it does not matter. The internal height I should like to be approximately 470 m.m. Say,	10.00
2996.	2.	Knoefler Titration apparatus with 5 litre bottle, 50 c.c. burette divided into 1/10.	38.00
5272.	1.	Sartorius Balance 140 m.m. beam with rider attachment.	125.00
5290.	2.	Sets of weights Sartorius analytical gold plated, to 100 gr.	58.00
			701.00



4903.	1.	Drying bath, copper, double walled Internal dimensions 25 X 25 X 45 c.m. with condensor.	142.50
4788.		Funnels with diagonally cut stems, white glass:-	
	20.	6 c.m. diameter.....	3.60
	40.	7 c.m. diameter.....	8.00
	40.	8 c.m. diameter.....	10.00
	20.	9 c.m. diameter.....	5.00
1261.	4.	Desiccators, 18 c.m. diameter with porcelain plates to fit.....	28.00
373.	3	meters, each of 1 m.m., 2 m.m.& 3 m.m. thick about	30.00
365.	1 K.	Asbestos, short fibre.....	2.50
366.	250 gr.	Asbestos, long fibre.....	4.50
	1.	Mill for grinding substances for analyses according to Maerker for hand power.	240.00
5463.	3.	Sets glazed porcelain rings for water baths (7 ring & cover each).....	8.25
4189.	3.	Thermoregulators, simple construction.	6.00
4209.	3 each.	Retorts with stoppers, 1 Litre, 2 Litres & 3 Litres.....	15.30
4224.	1.	Iron retort with stopper, 750 c.c.	6.50
		3 meters Block tin tubing 8 m.m. internal diameter.....	
			510.15

		3 meters Lead tubing, internal diameter 10 m.m.	
2298.		½ K. Red rubber tubing, best quality 6 m.m. diameter....	15.00
2298.		2½ K½ Red rubber tubing do do 7½ m.m.	60.00
2298.		200 gr. Red rubber tubing do do 3 m.m.	6.00
601.		2. Brushes for sives.....	2.50
595.		4. Brushes for wide beakers.....	5.00
594.		4. Brushes for narrow beakers.....	2.00
597.	6.	~~12~~. Brushes for test tubes.....	1.50
598.		12. Brushes for narrow tubes.....	0.60
599.		4 each Brushes for long tubes,4 c.m.& 5 c.m....	4.40
2100.		4 each Drechels wash bottles,100 c.c.250 c.c....	12.00
2319.		6 each Glass stop cocks,2 m.m. & 4 m.m. bore...	26.40
4550.		10.. Wash bottles, Jena glass, 1 Litre with wickerwork around neck.....	17.50
2298.		300 gr. each, best quality red rubber tubing 12 m.m. & 15 m.m.....	18.00
1229 a.		2 boxes each, Labels, small, medium and large...	2.00
2248.		Glass stirring rods:- ½ K each, 4, 5, 6, 7, 8 m.m. diameter.....	4.00
2250.		Glass stirring rods:- 50 each, 4, 5, 6 m.m. diameter.....	5.25
2294.		4. Rubber plates 30 c.m. square, for foot bellows.....	16.00
2256.		Corks of best quality, cylindrical:- 100 each, 17. 19, 21, 23, 25, 27, 30 m.m.....	13.85
2257.		Corks of best quality, conical:- 100 each, 30, 32, 35.....	13.50
		50 each, 40, 45, 50.....	18.00
		25 each, 55, 60.....	10.75
		10 each, 65, 70.....	5.75
			260.00

2310. Rubber stoppers unperforated:-

Quantity.	Height.	Lower diameter.	Upper diameter.	
6.	24	16	19	1.20
10	26	18	21	2.50
10	30	20	23	3.00
20	30	22	25	7.00
10	30	23½	26½	4.00
10	30	25	28	4.00
20	30	27	31	9.00
20	30	28½	32½	11.00
10	33	30	35	6.50
5	33	32	37	3.75
5	33	35	40	4.25
2	33	37	42	2.00
2	33	40	45	2.30
				60.50

5281. One Sortorius Balance up to 5 K with rider attachment 385.00

5290. One set of weights up to 1000 gr. 77.00

Warrnbrunn Quilitz & Co Catalogue 1897

1082. 10 Belljars 170 m.m. high & 65 m.m. diameter 8.50

Your Catalogue 1903.

1533. 20 flasks tabulated at bottom 1 litre. 24.00

Chemicals.

Quantity.		
5 K.	Ethyl Alcohol, absolute for analytical purposes.	13.50
2 K.	Calcium Hydrate (marble), 1 K bottles.....do....	2.20
200 Gr.	Aluminium foil, sorted.....	1.50
100 Gr.	.. wire, fine.....	1.30
5 K.	Basic Lead acitate.....do....	2.50
1 K.	Borax melted (glass).....do....	3.30
5 K.	.. Calcined.....	11.00
4 K.	Barium Chloride, 1 K bottles..... pro anal....	6.80
1 K.	Potassium Chloride, 500 gr. bottles .. do	1.70
1 K.	Chloroform.....do.....	3.00
½ K.	Tin Chloride.....do.....	1.80
500 Gr.	Collodion.....	1.00
½ K.	Iron Fe., finest powder reduced by Hydrogen do..	3.00
2 K.	Iron Fe., finest powder.....	3.80
5 K.	Ammonium Carbonate, 2½ K bottles .....do..	8.00
½ K.	Calcium Carbonate, precipitate.....do..	1.80
5 K.	Potassium Carbonate, 1 K bottles.....do..	20.00
5 K.	Sodium Carbonate, water free, 1 K bottles....do..	11.50
3 K.	Ammonium Molybdate, 1 K bottles.....do..	46.50
3 K.	Ammonium Oxalate, 1 K bottles.....do..	12.60
3 K.	Disodium hydrogen phosphate, 1 K bottles.....do..	16.50
300 gr.	Mercuric Oxide, yellow.....do..	4.80
3 K.	Ammonium Nitrate, puris.....	3.90
1 K.	Barium Nitrate.....do..	2.20
10 K.	Granulated sulphide of Iron for generating sulphuretted Hydrogen.....	6.00
5 K.	Carbon bisulphide, 1 K bottles.....do..	6.50
1 K.	Ammonium Sulphate.....do..	2.80
1 K.	Potassium sulphate, Crys.....do..	1.10
1 K.	Potassium bi Sulphate -do-	1.70
1 K.	Zinc sulphate.....do..	0.70
3 K.	Sodium Potassium Tartarate, (Siegnettesalz) do...	8.40

1 K.	Zinc, chemically pure, granulated.....	5.00
500 Gr.	Zinc Chloride.....	1.70
20 K.	Sulphuric acid with 10% P_2O_5 for Kjeldohl.....	26.00
10 K.	Barium Sulphide according to Winter for generating H_2S.....	17.00
10 K.	Potassium Chlorate for generating Oxygen.....	9.00
2 K.	Manganese dioxide, Com., powdered.....	1.50
200 Gr.	Iodine,.....pro anal..	5.60
2 K.	Hydrofluoric acid, in Paraffine bottles if possible.....pro anal...	16.10
4 K.	Ammonium acitate, cryst..... do	11.20
10 K.	Ammonium Oxalate, puris.....	19.00
10 K.	Potassium bichromate, puris cryst.....	12.00
1 K.	Potassium sulphide, Com. Schwefelleber.....	1.00
5 K.	Zinc, puris, gran.....	12.00
250 Gr.	Potassium Sulphocyanide.....	2.50
		351.00

"Copy." Original in Genl. Dis. 38 2603
Proceedings of the Govt of A. P.

The Maharaja of Jeypore.

No. 5

Read :—

× × × × ×

× × × × ×

(3) Correspondence ending with docket No. 786 of 22. 3. 04 from the Agl Chemist soliciting sanction to a budget provision of Rs 4000 for apparatus and Chemicals & books.

× × × × ×

Order thereon :—

No. H 3167-8 of 20.5.04

× × × × ×

(4) Re provision of Rs. 2000 for Apparatus and Chemicals will be raised to Rs 4000 as requested by the Agl Chemist

× × × × ×

(sd) L. A.
Offg Secy.

To the Agl Chemist & the Comptr

time as may be necessary to afford you facilities for such payments and adjustments and till the account you have opened for the 2nd installation renders ~~necessary~~ advisable such a course necessary.

4. As it has been found that the Indian payments can all be met by the current revenues realized here, I may inform you that there is no probability as far as I can see at present of your being called upon to pay for this part of the expenditure.

5. Concerning the limit

within which you may meet the requisitions from Capt. Thomson, the Statement A gives particulars of approximate requirements, and you may advance moneys as required within the limits therein given. Capt. Thomson will retain the same powers in regard to payments &c. for the 2nd Installation as he held for the 1st Installation.

6. I shall feel obliged by your kindly acknowledging the receipt of these instructions.

I have &c.

W. L. 22.X.83

Govr.

A

(77) 28

2nd Installation C.P.S. English Expenditure.

Total Contracts in round numbers £ 48,000.

Approximate dates on which payments will have to be made.	Nature of Payment	Amount.
		£
1st. June 1903.	10% on signing Contracts (This has been paid.)	4,800
2nd. Between November 1903 & March 1904 (both months inclusive)	50% on Shipment of Plant.	24,000
3rd. Between March 1904 & July 1904 (both months inclusive)	15% 3 months after Shipment.	7,200
4th. Between June 1904 and October 1904 (both months inclusive)	15% 6 months after Shipment	7,200
5th. In April 1905	10% 6 months after completion of plant.	4,800
Old Estimate £ 60000	Total	£48,000

Note:— G. E. Co's Contract is for final Shipment in December 1903.

Escher Wyss & Co's is for full delivery before February 1904.

Mechan's for full delivery by December '03.

7.8.03.

10.8.03

Work with copy

B

~~4~~ 29

Second Installation C.P.S. Indian expenditure Debit as per approximate Estimate based on rates actually paid in 1st Installation

Rs (5,68,400.)

Months	Approximate Expenditure.		Indian Expenditure
August 1903.	Rs.	14,500	
September 1903.	"	70,600	
October 1903	"	70,600	
November 1903	"	72,100	3205
December 1903	"	75,100	--
January 1904	"	68,100	4,500
February 1904	"	68,100	
March 1904	"	29,700	33
April 1904	"	20,700	
May 1904	"	17,700	(Indian Expenditure in 1903-04)
June 1904	"	17,700	5,24,900
July 1904	"	7,600	old Est 4,50,000
August 1904	"	7,500	(Indian Expenditure in 1904-05)
September 1904	"	7,500	30,100
October 1904	"	7,500	
5		521,100	
Total	Rs	5,55,000	Rs 5,55,000

Note:— For the date on which above is worked out please see overleaf.

7-8-03.

10.8.03

W. Smith

	Sub heads of works	Approximate Estimate Amount
1.	Excavation and Inlet bay	Rs 42,000
2.	Power House	1,02,000
3.	Two Transformer Houses	80,000
4.	Switch Houses. Quarters, Workshop &c.	1,50,000
5.	Rail in India & Road in India	45,000
6.	Erection of Hydraulic Plant	15,000
7.	—do— of Electrical Plant	15,000
8.	Purchase in America of Workshop Plant, Tools &c	15,000
9.	Staff. Tools & plant &c. Contingencies	90,000
10.	Balance	1,000
		Total Rs 5,55,000

Period or duration of time during which payment is to be made.	Amount required to be paid monthly	Remarks.
5 months from August to Decr 03.	Rs. 8,500	One Contractor
10 do Septr. 03. to June 04	10,200	
6 do Septr. 03 to February 04	13,400	Two Contractors
do	25,000	3 & 4 do
5 do from November 03 to March 04	9,000	Departmental work.
do Decr 03 to April 04	3,000	
10 months from January to Octr 04	1,500	
2 months Septr & Octr 1903	7,500	
15 months from August 1903 to October 1904	6,000	
Divided over a period of 10 months	100	

(38)

S/80 1/4

Here enter letter No. 4
1030 dated 22nd Oct
1903 to Messrs Coutts
and Co. London, in
connection with the
financing of the 2nd
Installation, Cauvery
Power Scheme -

Copy forwarded to the
Comptroller, Mysore for
for information and
needful action.

By order

Jo Secy

No. H. 1129-Ewr
of 29-10-03
29

Copy to the Secretary,
P.W.D. for information.

By order

(D.P.W files returned) -

V
29/10/03
Jo Secy